

CLAIMS

1. Multi-carrier receiver adapted to receive a multi-carrier signal and to demodulate data symbols from a set of carriers that constitute said multi-carrier signal, said multi-carrier receiver comprising antenna selection means to select at least two carriers (A31, A32) as antennas for estimation of characteristics of a narrowband disturber (RFI-Signal-3):

CHARACTERISED IN THAT said antenna selection means is adapted to select said at least two antennas (A31, A32) amongst all carriers located inside a predetermined frequency band (RFI-Band) wherein power spectral density of said multi-carrier signal has to stay below a threshold value, and at least two carriers (C1, C2) located outside said predetermined frequency band (RFI-Band).

2. Multi-carrier receiver according to claim 1,

CHARACTERISED IN THAT said multi-carrier receiver further comprises antenna reservation means, adapted to reserve said at least two carriers (C1, C2) located outside said predetermined frequency band (RFI-Band) by assigning a substantially low amount of power and data bits to said at least two carriers (C1, C2).

3. Multi-carrier receiver according to claim 1 or claim 2,

CHARACTERISED IN THAT said at least two carriers (C1, C2) are located at an equal distance of respective edges of said predetermined frequency band (RFI-Band).

4. Multi-carrier receiver according to claim 3,

CHARACTERISED IN THAT said distance equals 17 times 4.3125 kHz.

30